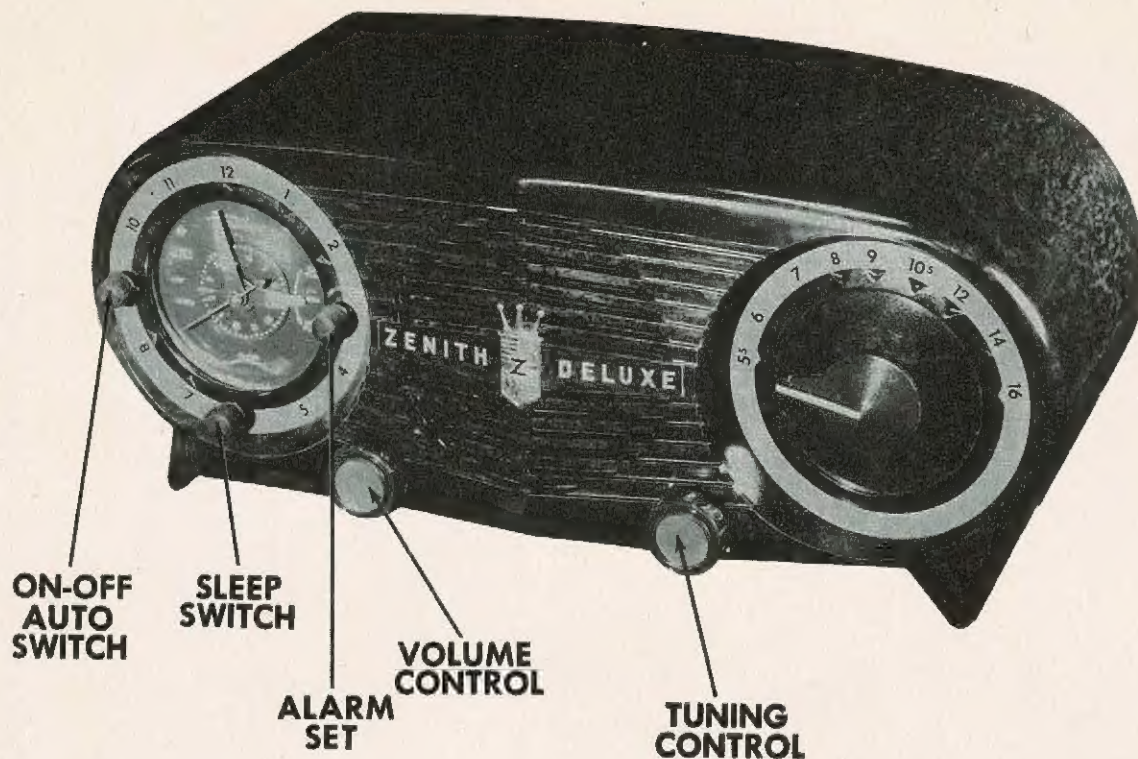




ZENITH  
MODELS L518, F, G, W, Y (Ch. 5L03)



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TRADE NAME	Zenith Model L518, F, G, W, Y (Ch. 5L03)					
MANUFACTURER	Zenith Radio Corp., 6001 Dickens Ave., Chicago, Ill.					
TYPE SET	AC Operated AM Superheterodyne Receiver with Electric Clock					
TUBES (Five)	Types 12BE6 Conv., 12BA6 IF Amp., 12AT6 Det.-AVC-AF Amp., 50C5 Audio Output, 35W4 Rectifier					
POWER SUPPLY 110-120 Volts AC-60 Cycles			RATING .28 Amp. @ 117 Volts AC			
TUNING RANGE—BROADCAST 535-1620 KC						
ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT						
Use isolation transformer, if available. If not, connect a .1MFD capacitor in series with low side of signal generator and B-. Volume control should be at maximum position. Output of signal generator should be no higher than necessary to obtain an output reading. Use an insulated alignment screwdriver for adjusting.						
Loop should be maintained in same relative position to chassis as when receiver is in cabinet.						
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
.1MFD	High side to pin 1 (grid) of 12BE6 (V1). Low side to B-.	455KC (400%Mod)	600KC	Across voice coil	A1, A2, A3, A4	Adjust for maximum output. If isolation transformer is not used, reduce dummy antenna to .001MFD to reduce hum modulation.
	Loop	1620KC	Tuning gang fully open	"	A5	Fashion loop of several turns of wire and radiate signal into loop of receiver. Adjust for maximum output
	"	1400KC	Tune to 1400KC signal	"	A6	"
To set pointer turn tuning gang fully closed and set pointer parallel to base of cabinet of low frequency end of the dial.						

HOWARD W. SAMS & CO., INC. • Indianapolis 5, Indiana

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# PARTS LIST AND DESCRIPTIONS

ZENITH  
MODEL L58 (Ch. 5L03)

## CHASSIS—TOP VIEW

TUBES (SYLVANIA, GENERAL ELECTRIC or Equivalent)

ITEM No.	USE	REPLACEMENT DATA		NOTES
		ZENITH PART No.	STANDARD REPLACEMENT	
V1	Converter	12BE6	12BE6	
V2	IF Amplifier	12BA6	12BA6	
V3	Det.-AFC-AF Amp.	12AT6	12AT6	
V4	Audio Output	50C5	50C5	
V5	Rectifier	35W4	35W4	

## CAPACITORS

Capacity values given in the rating column are in mfd. for Electrolytic and Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

ITEM No.	RATING CAP.	VOLT	REPLACEMENT DATA					NOTES
			ZENITH PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNFELL DUBLIER PART No.	ERIE PART No.	
C1A	.80	150	22-235L	AF12-19	DF-503	PT3485	GP2K-25L	TVL-2442
C2	.05	200	22-829	P288-05	D6-251	PTE455	GP2K-25L	2TM-S5
C3	.05	200	22-1666	S1250	DF-503	D6-251	GP2K-25L	UC-5325
C4	.05	200	22-829	P288-05	D6-103	TM581	GP2K-25L	5GA-T25
C5	.05	10000	22-3	BPD-01	D6-103	TM581	GP2K-25L	5HK-S1
C6	.470	470	22-6	BPD-01	D6-103	TM581	GP2K-25L	5HK-S1
C7	10000	470	22-3	BPD-01	D6-103	TM581	GP2K-25L	5HK-S1
C8	.01	400	22-1182	P488-01	D6-103	TM581	GP2K-25L	4TM-S1
C9	10000	400	22-3	BPD-01	D6-103	TM581	GP2K-25L	5HK-S1
C10	.05	200	22-829	P288-05	D6-103	PT455	GP2K-25L	2TM-S5

## CONTROLS

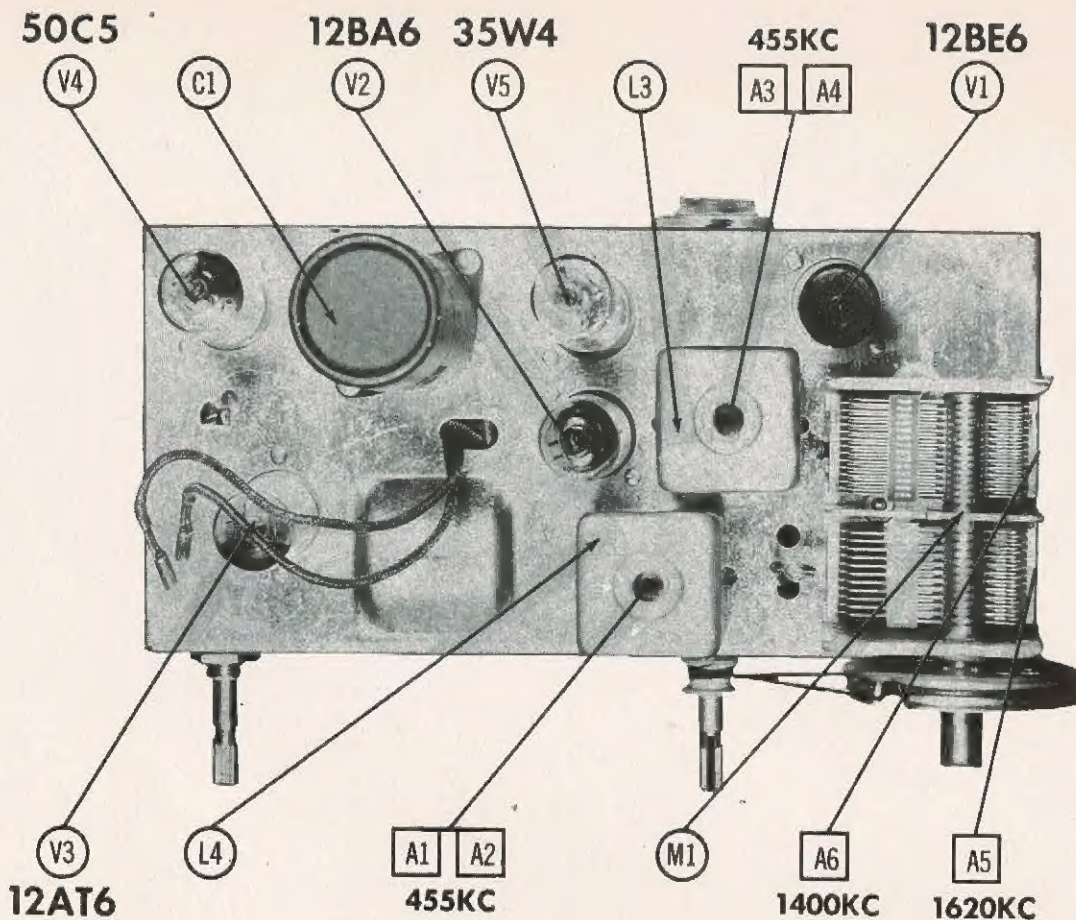
ITEM No.	RATING RESISTANCE	WATTS	REPLACEMENT DATA			INSTALLATION NOTES
			ZENITH PART No.	IRC PART No.	CENTRALAB PART No.	
R1A	500K $\Omega$	1	63-2393	Q11-133	AG-58-S	Volume Attach to R1A
B	Shunt		Not Req.	Not Req.	KSS-3	U-50 Not Req.

## RESISTORS

ITEM No.	RATING OHMS	WATT	REPLACEMENT DATA		NOTES
			ZENITH PART No.	IRC PART No.	
R2	22K $\Omega$	1	63-1842	BTS-23K	
R3	2.2Meg	1	63-1826	BTS-2.2Meg	
R4	68 $\Omega$	1	63-1737	BTS-68	
R5	4.7Meg	1	63-1940	BTS-4.7Meg	
R6	470K $\Omega$	1	63-1888	BTS-470K	

## TRANSFORMER (AUDIO OUTPUT)

ITEM No.	RATING		REPLACEMENT DATA				NOTES
	IMPEDANCE	DC RES.	ZENITH PART No.	STANCOR PART No.	HERIT PART No.	CHICAGO PART No.	
T1	2.0K $\Omega$	3.3 $\Omega$	193G1 .04 $\Omega$ tap @ 6 $\Omega$	95-1293	A-3031	RO-3	Drill one new mounting hole.





# PARTS LIST AND DESCRIPTIONS (Continued)

## SPEAKER

ITEM No.	RATINGS		REPLACEMENT DATA		NOTES
	SIZE	FIELD	ZENITH PART No.	QUAM PART No.	
SP1	4"	PM	48-713	4A07	

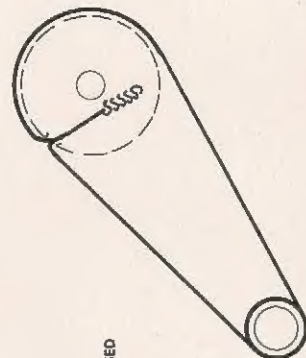
## COILS (RF-IF)

ITEM No.	USE	DC RES.		REPLACEMENT DATA		NOTES
		PRI.	SEC.	ZENITH PART No.	MILLER PART No.	
L1	Loop Ant.	3.1Ω		S-2042		
L2	Osc. Coil	.7Ω	6.5Ω	S-18818		
L3	Input IF	18Ω	18Ω	95-1101	BC-368	
L4	Output IF	17Ω	17Ω	95-1102	BC-355	Includes cabinet back

\* Disregard tap on secondary winding.  
† Use adapter plate and cut out center spadebolt mounting support.

## MISCELLANEOUS

ITEM No.	PART NAME	ZENITH PART No.	NOTES
M1	Tuning Capacitor	22-2386	
M2	Switch	85-495	34-457MMF, 27-195MMF
	Clock Assy.	S-18829	Radio-Phono Selector
	Clock Cover	S-18834	Model L518
	Clock Dial Glass	S-18825	Models L518F, L518G, L518W, L518Y
	Clock Escutcheon	182-145	
	Cabinet	57-1782	
	Cabinet	14-1454	Model L518
	Cabinet	14-1455	Model L518F
	Cabinet	14-1503	Model L518G
	Cabinet	14-1453	Model L518W
	Cabinet	14-1451	Model L518Y
	Dial Scale	28-466	
	Pointer	58-267	Model L518
	Pointer	58-265	Models L518F, L518G, L518W, L518Y
	Knob	46-904	Clock (3 used), Model L518
	Knob	46-905	Clock (3 used), Models L518F, L518G, L518W, L518Y
	Knob	46-943	Volume, Tuning (2 used), Model L518
	Knob	46-941	Volume, Tuning (2 used), Models L518F, L518G, L518W, L518Y

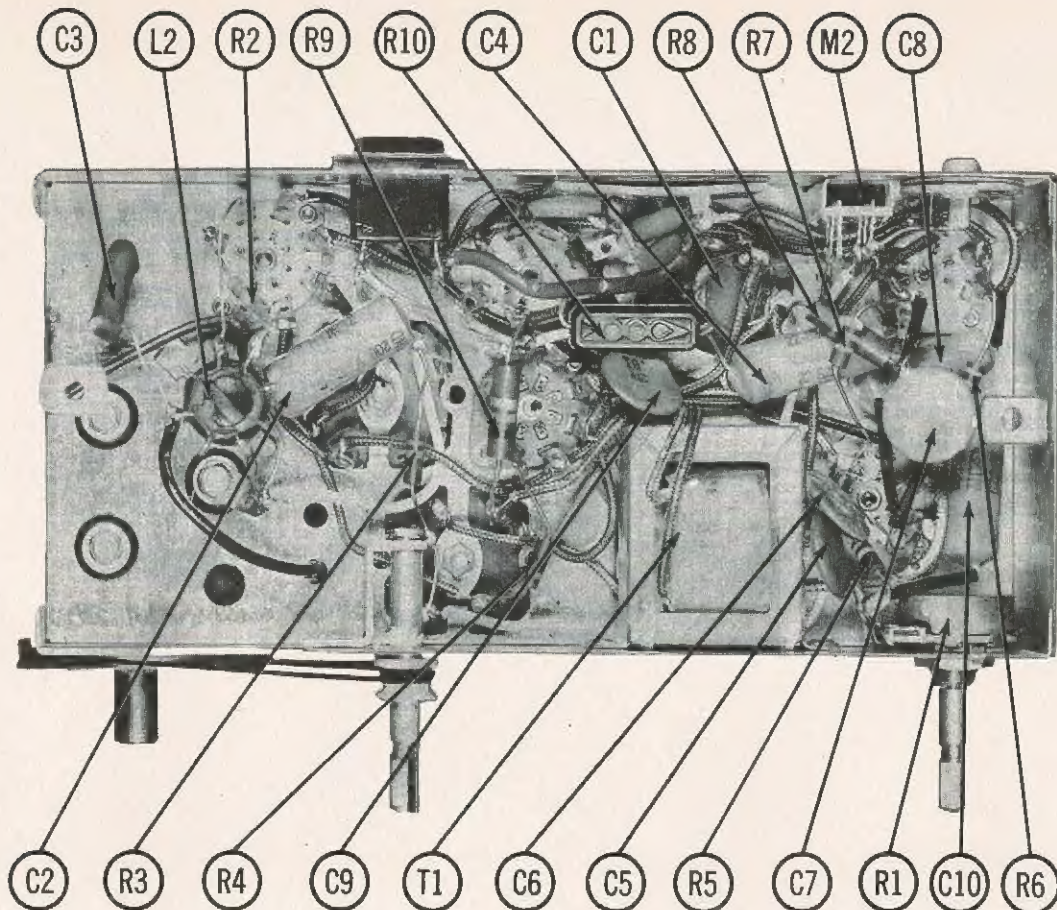


TUNING GANG FULLY CLOSED

2 1/2 TURNS

DIAL CORD DRIVE

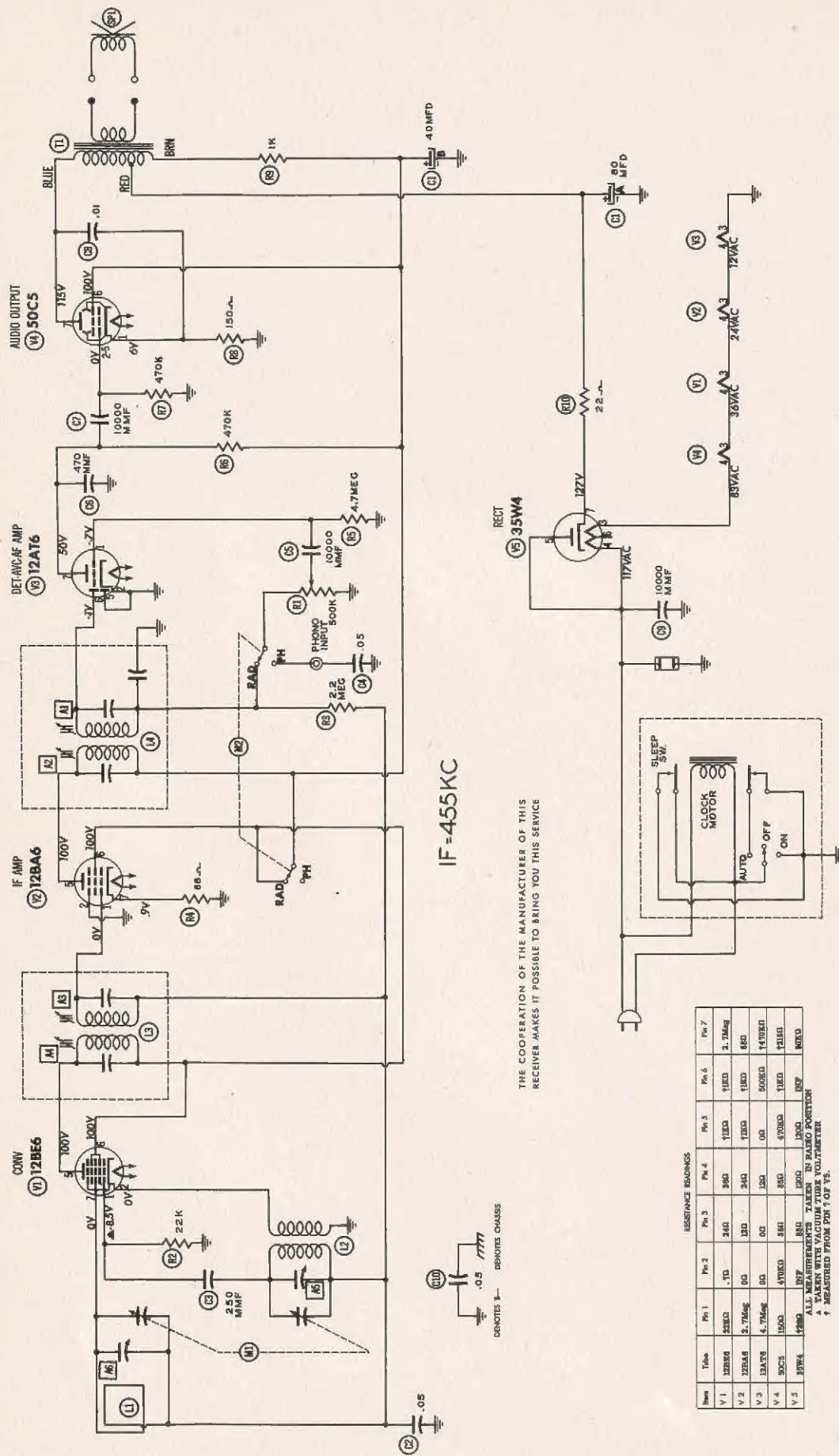
# CHASSIS—BOTTOM VIEW



ZENITH  
MODEL L518 (Ch. 5L03)

ZENITH  
MODEL L518 (Ch. 5L03)





1. DC Voltage measurements are at 20,000 ohms per volt; AC Voltages measured at 1,000 ohms per volt.
2. Socket connections are shown as bottom views.
3. Measured values are from socket pin to common negative.
4. Line voltage maintained at 117 volts for voltage readings.
5. Nominal tolerance on component values makes possible a variation of  $\pm 10\%$  in voltage and resistance readings.
6. Volume control at maximum, no signal applied for voltage measurements.